

KLS4C

Four network port three-in-one video controller

Version: v1.0

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Specifications



TEL 400 159 0808
Web: www.kystar.com.cn

Beijing KYSTAR Technology Co., Ltd.

Professional Ultra HD Video Display
Control system integrated solution and service provider

Version record

version numbe	Change details	发布时间
V1.0	First version released	2024.04.01

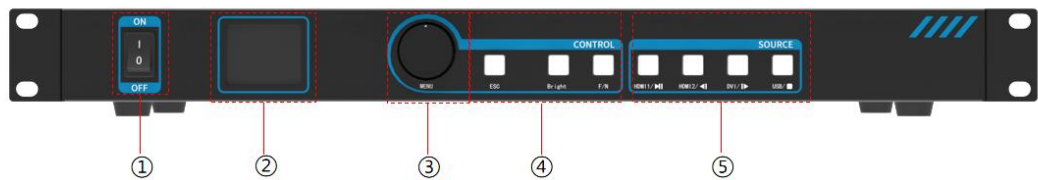
Overview

KLS4C three-in-one controller is a two-network port three-in-one controller launched for LED display solutions that integrates a professional video processor, LED sending card, and offline player. One device can easily handle large screens, greatly simplifying LED solution configuration and on-site debugging.

Features

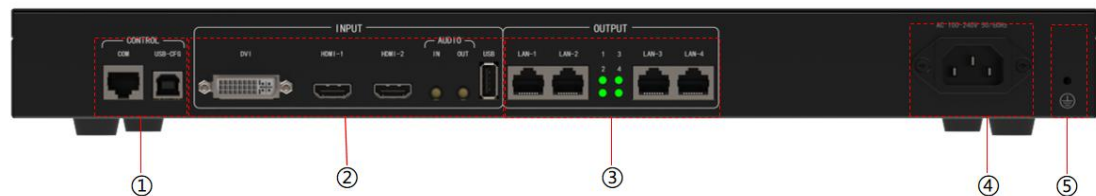
- The whole machine has 4 network ports, the whole machine can carry a maximum of 2.6 million pixels, the width can reach 4096 pixels, and the height can reach 2048 pixels.
- Supports a variety of digital signal interfaces, including 2 HDMI1.3, 1 DVI-D and 1 USB.
- Supports direct operation without computer, 3-step finish screen setting .
- Supports USB playback and perfectly supports a variety of video and picture formats.
- EDID configuration management: supports reading, modifying, and customizing EDID (Extended Display Identification Data).
- Supports image freeze and black screen functions.
- Supports output test screen.
- Black border removal/cropping function: Solve the black border problem caused by front-end signals and perform arbitrary cropping for any signal source (still maintaining full screen status).
- Support key lock to prevent misoperation.
- The overall output screen display brightness and contrast can be adjusted in real time and quickly.

Panel description



NO	Name	Function Description
①	Switch	Device power switch
②	LCD screen	Display the device settings menu and current status of the device
③	knob	- Press the knob to confirm the selection or enter the menu interface - Turn the knob to select menu options or adjust parameters
④	Function shortcut keys	- ESC: Click to exit the current interface - Bright: Click to enter the brightness debugging interface - F/N: Customizable function keys, the default is the partial panorama switch button, and can also be set as user mode button, one-click black
⑤	MENU	- HDMI1/▶: Switch HDMI1 signal source; in USB playback mode, it is the pause/play button - HDMI2/◀: Switch HDMI2 signal source; click to play the previous file in USB playback mode - DVI/▶: Switch DVI signal source; click to play the next file in USB playback mode - USB/■: Switch USB signal source; click again to enter USB playback

Port specifications



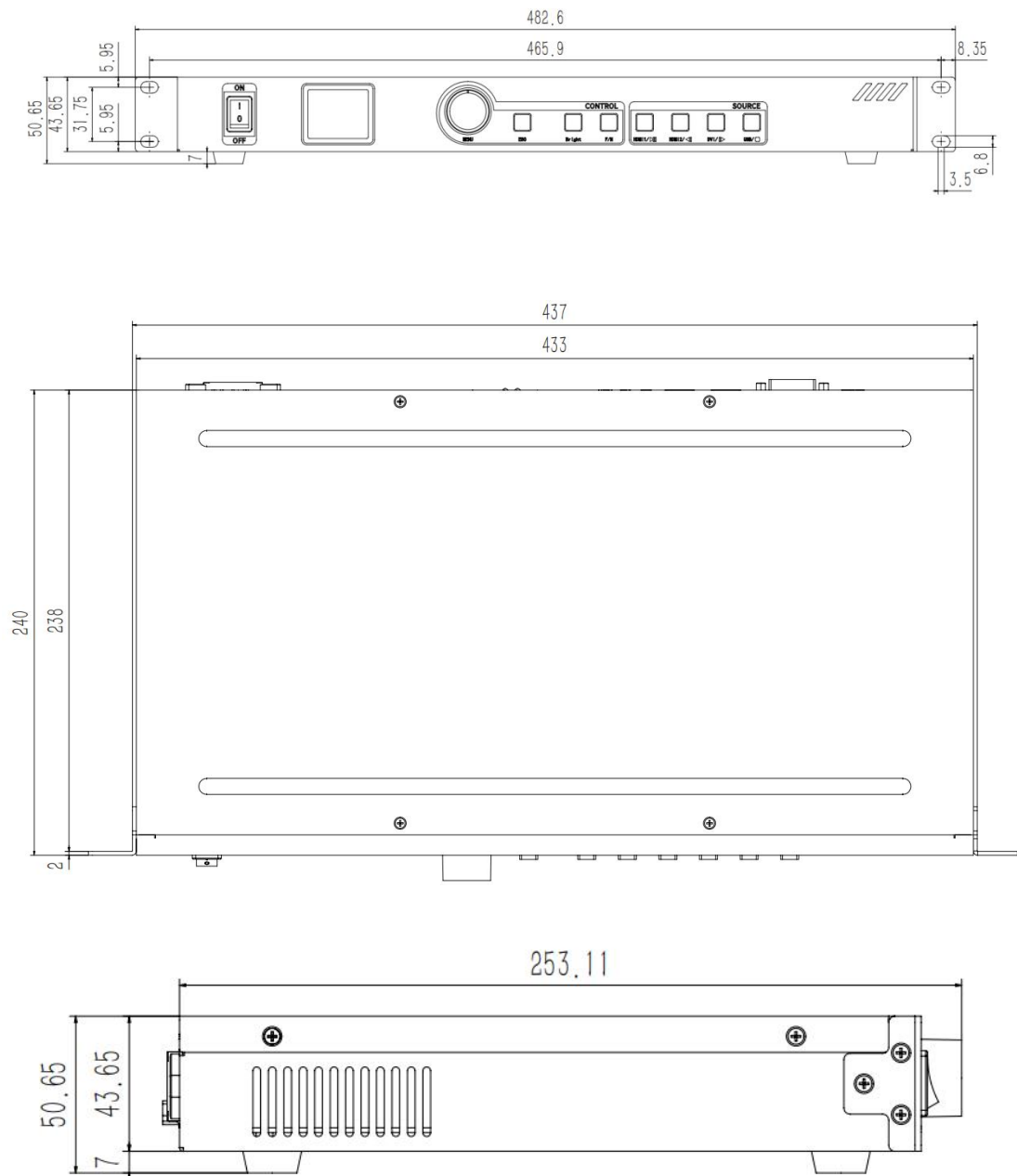
NO	Name	Function Description
①	COM	RJ-45 interface for connecting central control equipment
	USB-CFG	USB-CFG interface for connecting to PC host computer for control

②	Input interface	DVI: Maximum support 1920x1200@60Hz Support custom resolution, max width 2048, max 1200 Support RGB444, YCbCr422, YCbCr444 signal formats HDMI1: Maximum support 1920x1200@60Hz Support custom resolution, max width 2048, max 1200 Support RGB444, YCbCr422, YCbCr444 signal formats HDMI2: Maximum support 1920x1200@60Hz Support custom resolution, max width 2048, max 1200 Support RGB444, YCbCr422, YCbCr444 signal formats AUDIO IN: 1/8" TRS audio input, 3.5mm stereo interface, 2.0Vp-p / 10 KΩ AUDIO OUT: 1/8" TRS audio output, 3.5mm stereo interface, 2.0Vp-p / 10 KΩ USB: U disk input, the NTFS system supports a maximum of 2T, the FAT32 system supports a maximum of 192G, and a single file can
③	Output Interface	- LAN1-LAN4: Used to transfer data to the receiving card - Single network port loading: 650,000 pixels - Total load: 2.6 million pixels, max width 4096 or max 2048 - Network port indicator - Flashing: Communication with the receiving card is normal, flashing frequency is 1/2 seconds each time - Steady on: Abnormal communication with the receiving card
④	Power outlet	Connect AC power 100-240V AC~50/60Hz
⑤	Ground terminal	For equipment grounding

Whole machine specification	
Input power	100-240V AC~50/60Hz
Operating temperature	0-45°C
net weight	2.6KG
Machine power consumption	25W
Dimensions	482.6×253.11×50.65mm (L×W×H)
Package Size	550×90×335mm (L×W×H)

Application scenarios

Attachment: Equipment dimension drawing



Unit: mm. Linear and angular dimensional tolerances not noted conform to GB/T1804-M.

Attachment: USB audio and video playback type

It is recommended to use AVI files, video encoding AVC, and audio encoding MP3.

O support, × no support			
Video codec support list			
file extension	File encapsulation	video encoding	Whether to support
*.avi	AVI	Divx	×
		XviD	0
		MPEG2	0
		H. 264 (AVC)	0
		MPEG-4	×
		Motion JPEG	0
*.wmv, *.asf	ASF	WMV	×
*.mp4	MP4	H. 264 (AVC)	0
		XviD	0
		DivX	0
		MPEG-4	0
		Motion JPEG	×
*.mkv	MKV	RealVedio	×
		AVC	0
		MPEG-4	0
		MPEG-2	0
		MPEG-1	0
*.mpg, *.mpeg	MPG, MPEG	MPEG-2	0
		MPEG-1	0

*.ts	MPEG2-TS	MPEG-2	0
		H. 264 (AVC)	0
*.FLV	FLV	sorenson	0
		H. 264 (AVC)	0
Audio codec support list			
/		audio encoding	Whether to support
		PCM	0
		MP3	0
		AAC	×
		HE-AAC	×
		MP2	0
		AC3	×
		WMA	×